

# Maximizing ROE on acid treatment

## SITUATION

An operator approached Baker Hughes to improve long-term injectivity by developing a lower cost stimulation solution

## OPERATOR CHALLENGES

- Inefficient removal of filter cake from open hole completion installations causes higher skins and lower injectivities at well onset
- Traditional methods of improving injectivity through post completion stimulation can add significant costs to deep-water wells

## SOLUTION

### Expertise

Baker Hughes collaborated with the operator on a more efficient solution for filter cake removal that could be performed during lower completion operations. Multiple product lines and operations personnel were consulted in evaluating options.

### Design

Baker Hughes designed a one-trip acid treatment solution using multiple products. The [Roto-Pulse™ coiled tubing jetting tool](#) was added to the [SC-XP™ Prime lower completion system](#) to precisely inject and divert acid through the screens toward the filter cake.

### Execution

Baker Hughes successfully completed design, integration, component level testing and system level testing within one year prior to field deployment. The Roto-Pulse lower completion deployed acid treatment solution met all requirements for an open hole lower completion and delivered the well in record time. The onset injectivity matched post well coiled tubing stimulation without the \$10M subsea intervention cost.

## RESULTS

**17 hours**  
rig time saved

**Avoided**  
\$10M+ subsea intervention

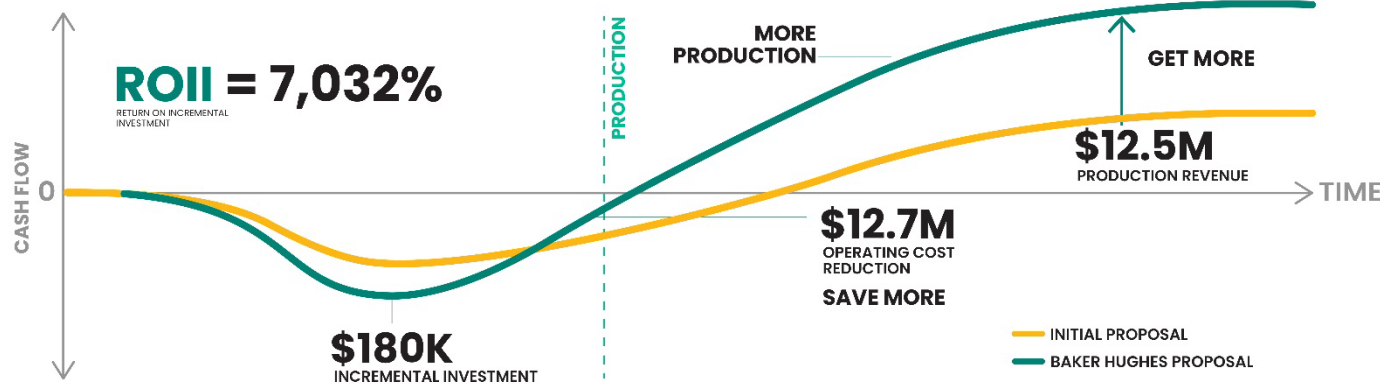
**100%**  
injectivity increase from planned results

**7X**  
faster open hole displacement rate reducing filter cake thickness

**Matched**  
post well coiled tubing stimulation with onset injectivity

**Fastest**  
open hole completion to date for the operator

## ASSET LIFECYCLE



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MAXIMIZING  
**ROE**  
RETURN ON EFFICIENCY

Baker Hughes